

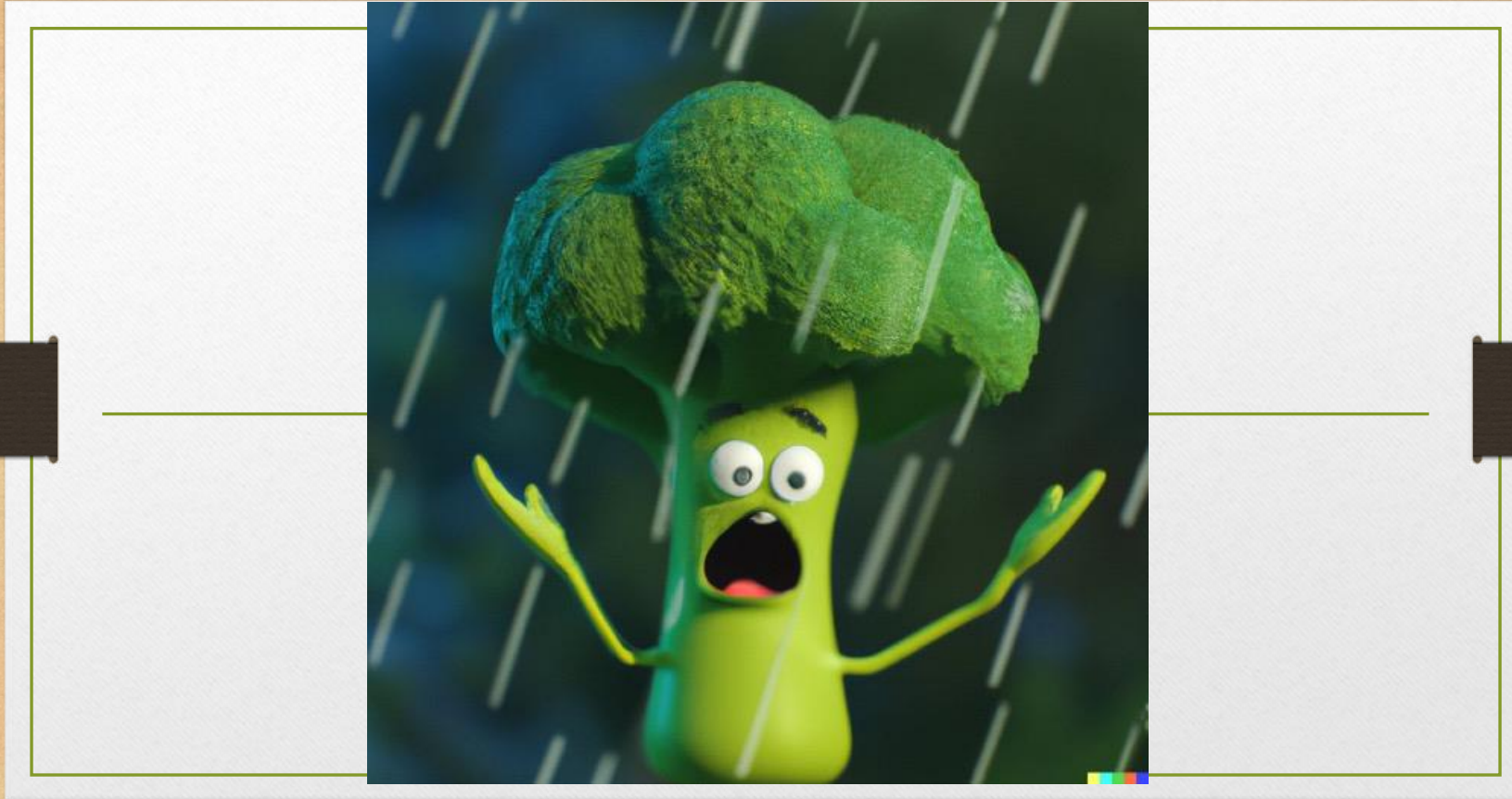
# Snap Chat Camera Traps and AI

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A few tools for your consideration



# Artificial Intelligence – Deep Neural Network Model



“A head of broccoli complaining about the weather”  
openai.com; DALL-E 2 open source text/image model



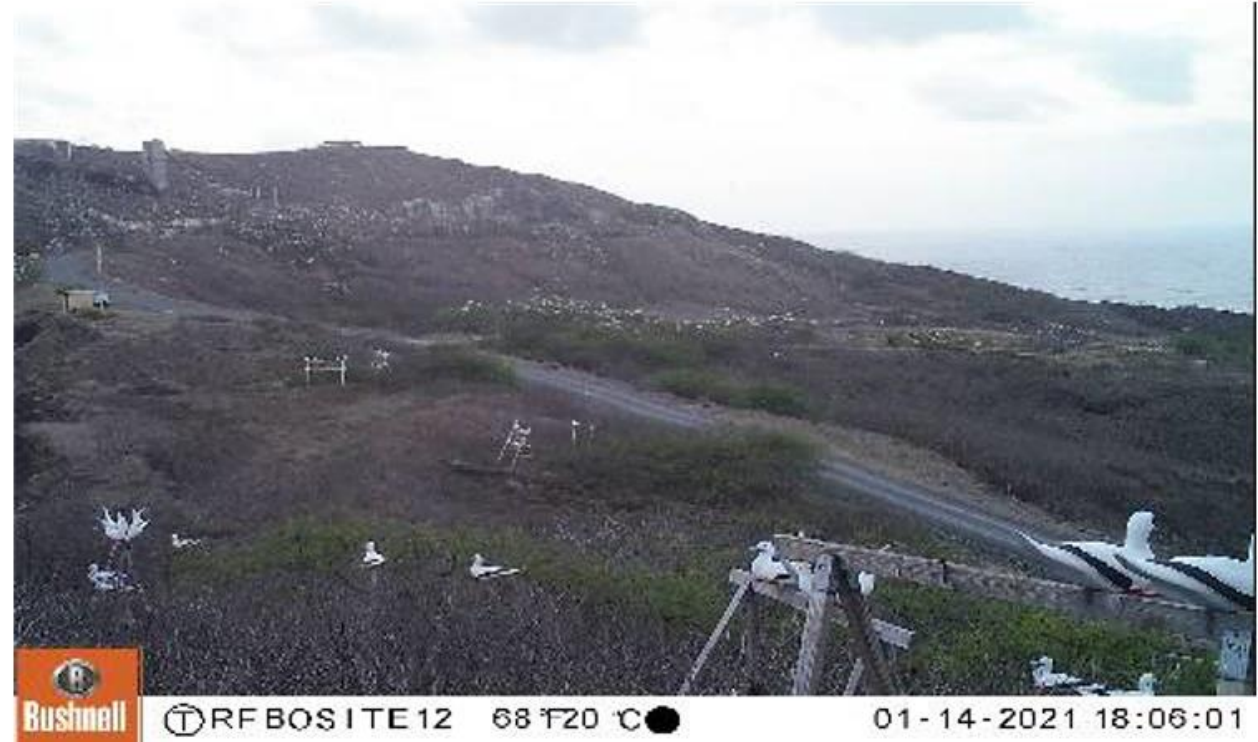
# Kaua'i Forest Bird Recovery Project

- Goal: Understand interactions between predatory rats and endangered forest birds in Hawai'i on a rat trapping grid that has caused take of Puaiohi, a critically endangered Hawaiian thrush.



# Kaneohe Booby Project

- Goal: Convince the only red footed Booby colony on O'ahu to move off of the firing range at the Kaneohe Marine Corps Base using decoys and sound.





# Brown Tree Snake Interdiction

- Goal: use real time video, AI (Zendo) and a combination of IOT (internet of things) technology to automate surveillance for BTS in Guam and the Mariana Islands.

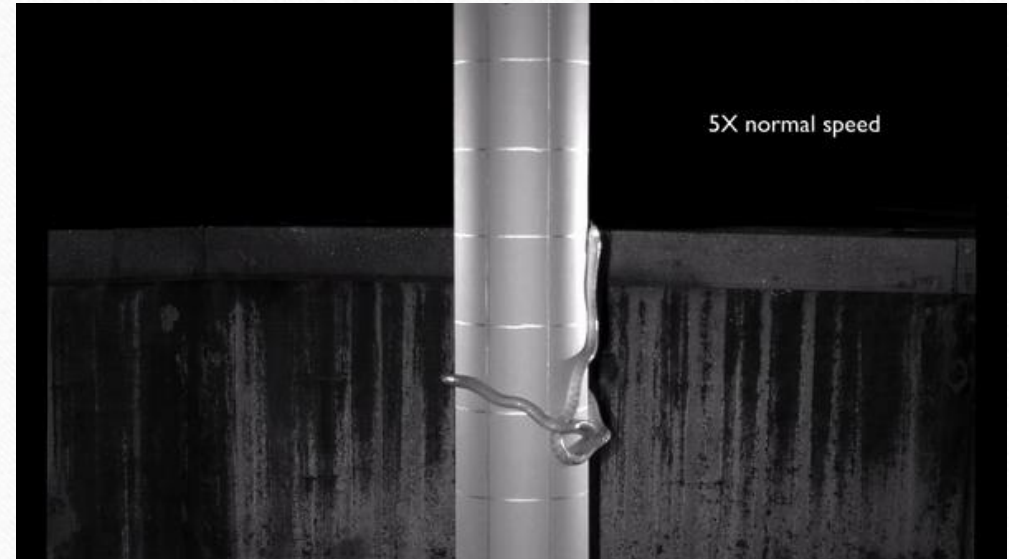


Photo: Thomas Siebert, Scientific American

# Camera Traps





# Complexity of Photo Data Analysis

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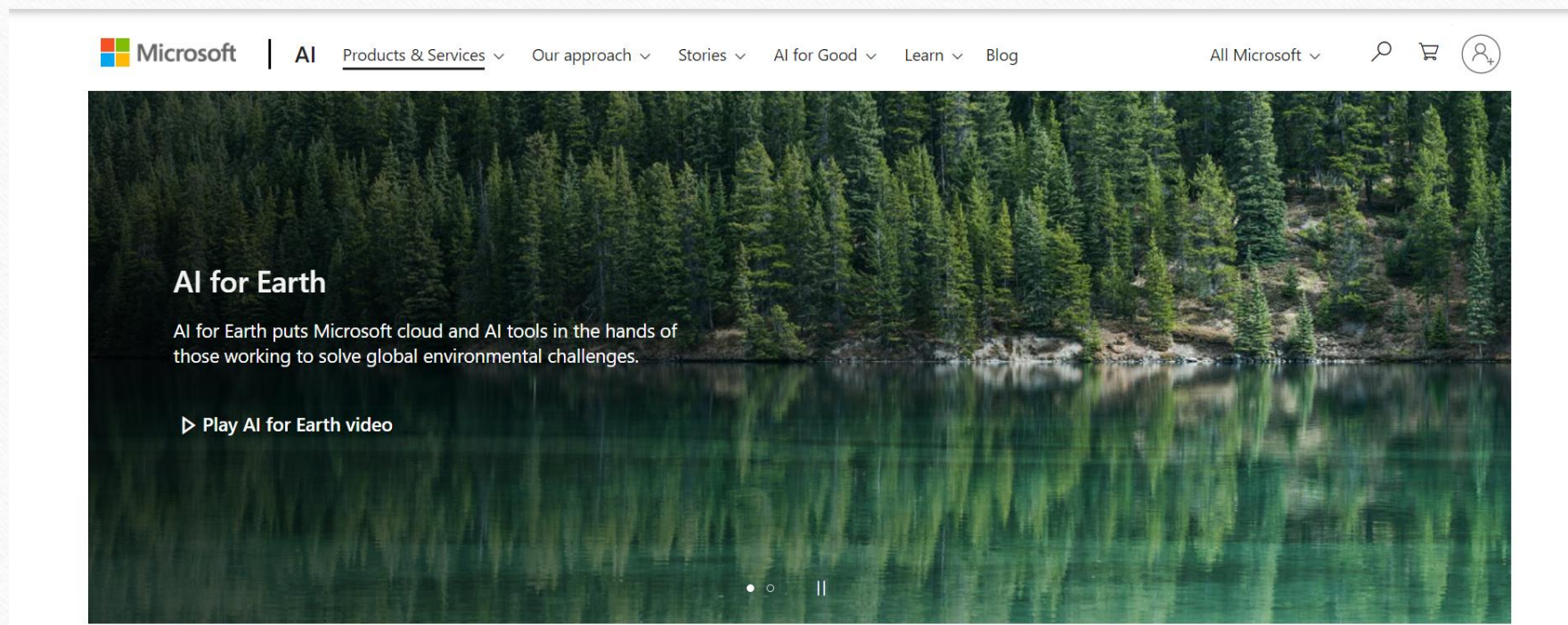
# Zendo...(DeepAI.org)

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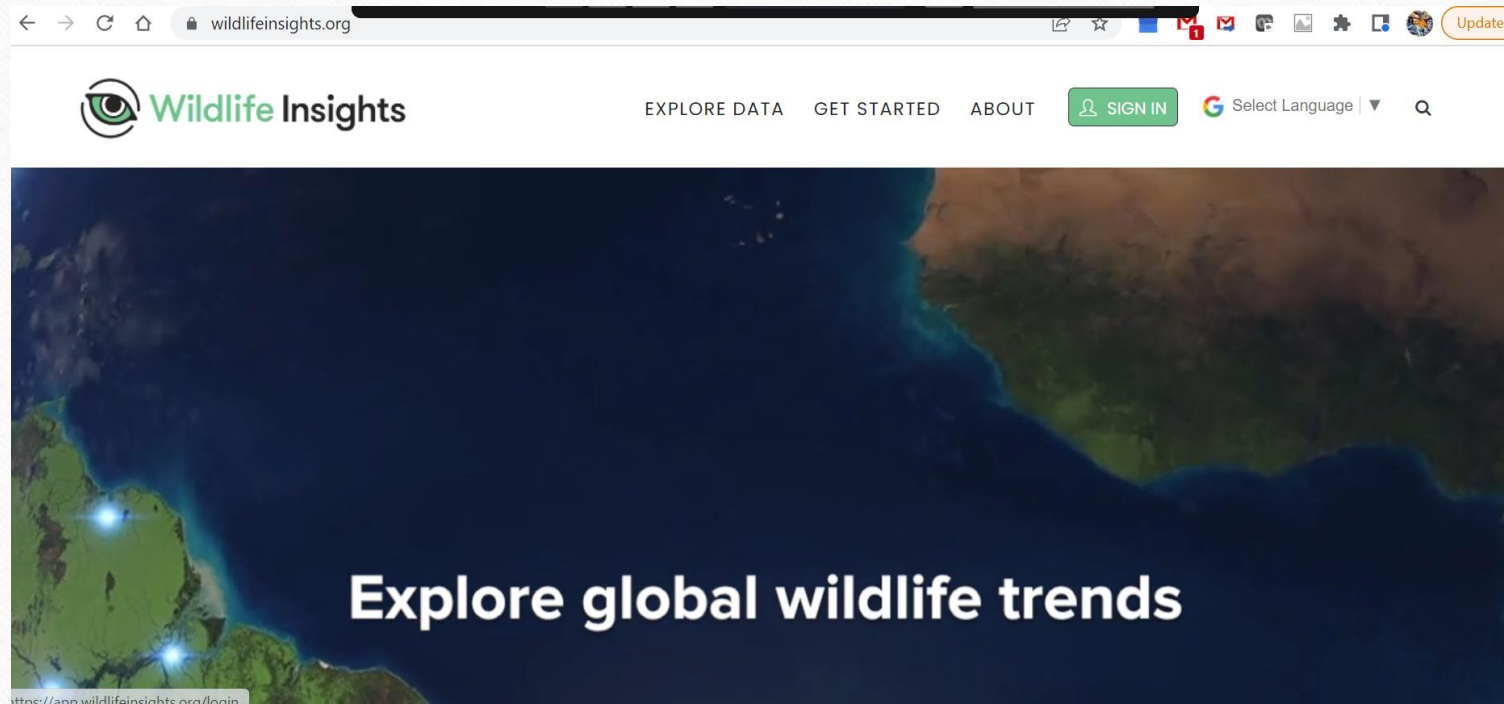




# Microsoft - AI4Earth



# Wildlife Insights





# Wildlife Protection Solutions

 Premium



Wildlife Protection Solutions

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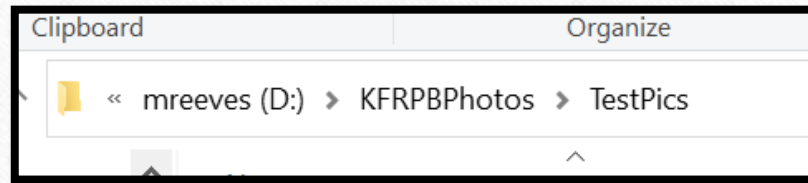


Wildlife Vets Perform Autopsy On Poached Rhino | Wildlife In 360 VR

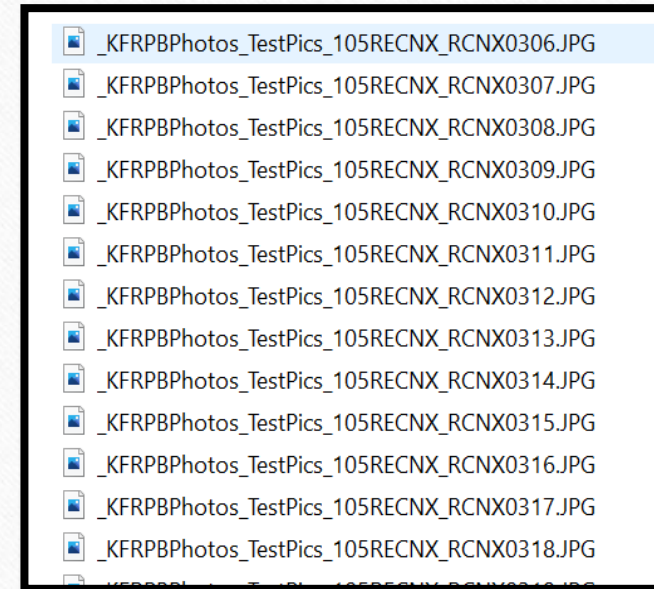
Wildlife Protection Solutions • 476K views • 2 years ago

This white rhino was killed by poachers on a wildlife reserve in South Africa. Unfortunately, the poachers escaped into the bush before wildlife rangers could intervene. Since the poachers...

# Some Tools: Data Management and Analysis



R Script





# Data Management Issues...How to not go to jail when you work for the Government.

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- If you take the pictures, they are GOVERNMENT DATA.
  - If you want to use software on the cloud, the company needs FEDRAMP approval
    - There are workarounds, which is what we are exploring with Zendo at present, which have to do with secure deployments of software on the DOI cloud.
- Data Privacy and FOIA issues
  - Pictures of people can be FOIA'd (talk to your privacy officer)
- If your partners take the pictures, they are not government data.
- Talk to your FOIA and Privacy Officers...

Questions?  
mari\_reeves@fws.gov

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# Camera Traps

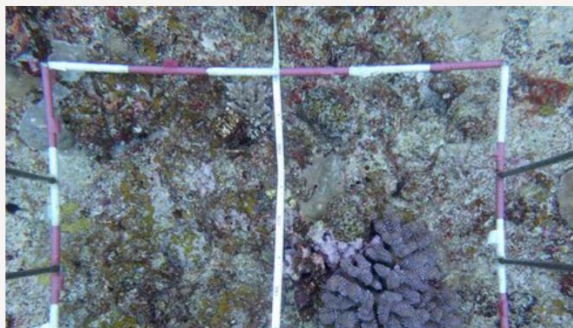




pig



# Coral Net



## CORALNET

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